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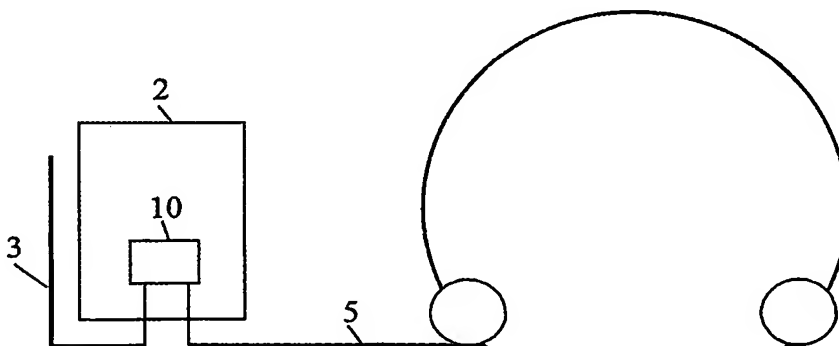
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(54) Title: RADIO FREQUENCY ANTENNA IN A WIRELESS DEVICE



(57) Abstract: Devices (1) comprising antenna (2-4, or 2, 3, 5) for receiving radio frequency signals are provided with first conductor (2) for receiving the radio frequency signals and for converting the radio frequency signals into electromagnetic fields and second conductor (3) for receiving at least a part of the electromagnetic fields and for converting the received electromagnetic fields into input signals. The second conductor (3) are coupled to radio frequency circuits (10) for processing the input signals. The resonant frequencies of these antennas (2-4, or 2, 3, 5) can be selected by designing the dimensions of the second conductor (3) and their positions with respect to the first conductor (2). The radio frequency circuits (10) comprise antenna diversity units (20) coupled to the second conductors (3) and to third conductors (4, 5). The third conductor (4) mainly receive the electromagnetic fields, or the third conductor (5) mainly receive the radio frequency signals. The devices (1) comprise wireless headphones.

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